

Appl. No. 09/831,930
Amendment and/or Response
Reply to FINAL Office action of May 8, 2003

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Amendments to the Claims:

A clean version of the entire set of pending claims (including amendments to the claims, if any) is submitted herewith per 37 CFR 1.121(c) (3). This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

15. (Currently Amended) A network connection comprising:
a plurality of network users each having a network coupler, wherein the network couplers are adapted to provide a symmetrical, differential data transmission between the network users; and

at least two symmetrical twisted wires which electrically connect the network users in a network and which are coupled to a single terminal of a voltage source, wherein the at least two symmetrical twisted wires have the same electrical resistance and the at least two symmetrical twisted wires ~~are coupled to a single terminal of a voltage source, and wherein energy is transferred from the single terminal equally through the at least two twisted wires and differentially through each of the two twisted wires.~~ transmit differential voltages having equal magnitudes and opposite polarities, the differential voltages being supplied to and from the plurality of network users.

16. (Currently Amended) A network connection as claimed in claim 15~~16~~, wherein only one of each of the at least two symmetrical twisted wires is provided with an insulative layer.

17. (Currently Amended) A network connection as claimed in claim 15~~16~~, wherein only one of each of the at least two symmetrical twisted wires is provided with an insulative lacquer coating.

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18. (Currently Amended) A network connection as claimed in claim 1516, wherein only one of each of the at least two symmetrical twisted wires is provided with a synthetic material coating.

19. (Currently Amended) A network connection as claimed in claim 1516, wherein only one of each of the at least two symmetrical twisted wires in the network connection is surrounded by a tubing.

20. (Currently Amended) A network connection as claimed in claim 15, wherein the at least two symmetrical twisted wires are stranded wires, and the stranded wires are mutually insulated via a cladding.

21. (Currently Amended) A network connection as claimed in claim 15, wherein the at least two symmetrical twisted wires each have a double form.

22. (Currently Amended) Use of a cable having at least two twisted wires in a network, comprising:

a plurality of network users each having a network coupler, wherein the network couplers are adapted to provide a symmetrical, differential data transmission between the network users; and

at least two symmetrical twisted wires which electrically connect the network users in a network, wherein the at least two twisted wires have the same electrical resistance and the at least two twisted wires are coupled to a single terminal of a voltage source, and wherein the at least two twisted wires transmit differential voltages having equal magnitudes and opposite polarities, the differential voltages being supplied to and from the plurality of network users, and wherein energy

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~~is transferred from the single terminal equally through the at
least two twisted wires and differentially through each of the
two twisted wires.~~

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